

**Abstract**

In a pre-emphasis unit device which transmits signals along a transmission line with a frequency-dependent pre-emphasis, the frequency response of the pre-emphasis unit is varied to match characteristics of the transmission line.

- 5 Initially the pre-emphasis unit is set to transmit pulses of known length along a transmission line with the pre-emphasis of the high frequency portions of the signal being relatively low. The duration of the received pulse is measured. Gradually the pre-emphasis unit is modified to increase the high-pass filtered signals until the measured duration of the pulse is as great as the transmitted duration, to within a certain tolerance.
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[Fig. 9]

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